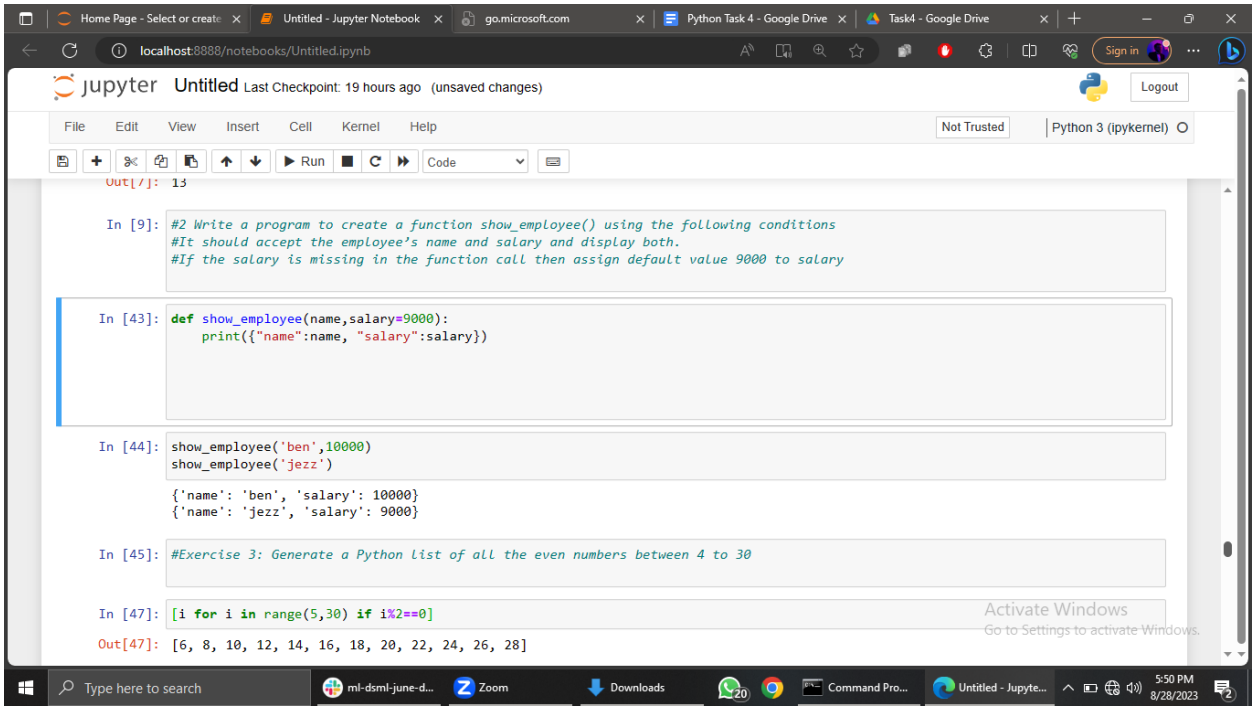
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Code
Out[7]: 13
In [9]: #2 Write a program to create a function show_employee() using the following conditions
#It should accept the employee's name and salary and display both.
#If the salary is missing in the function call then assign default value 9000 to salary
In [43]: def show_employee(name,salary=9000):
print({"name":name, "salary":salary})
In [44]: show_employee('ben',10000)
show_employee('jezz')
{'name': 'ben', 'salary': 10000}
{'name': 'jezz', 'salary': 9000}
In [45]: #Exercise 3: Generate a Python list of all the even numbers between 4 to 30
In [47]: [i for i in range(5,30) if i%2==0]
Out[47]: [6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28]
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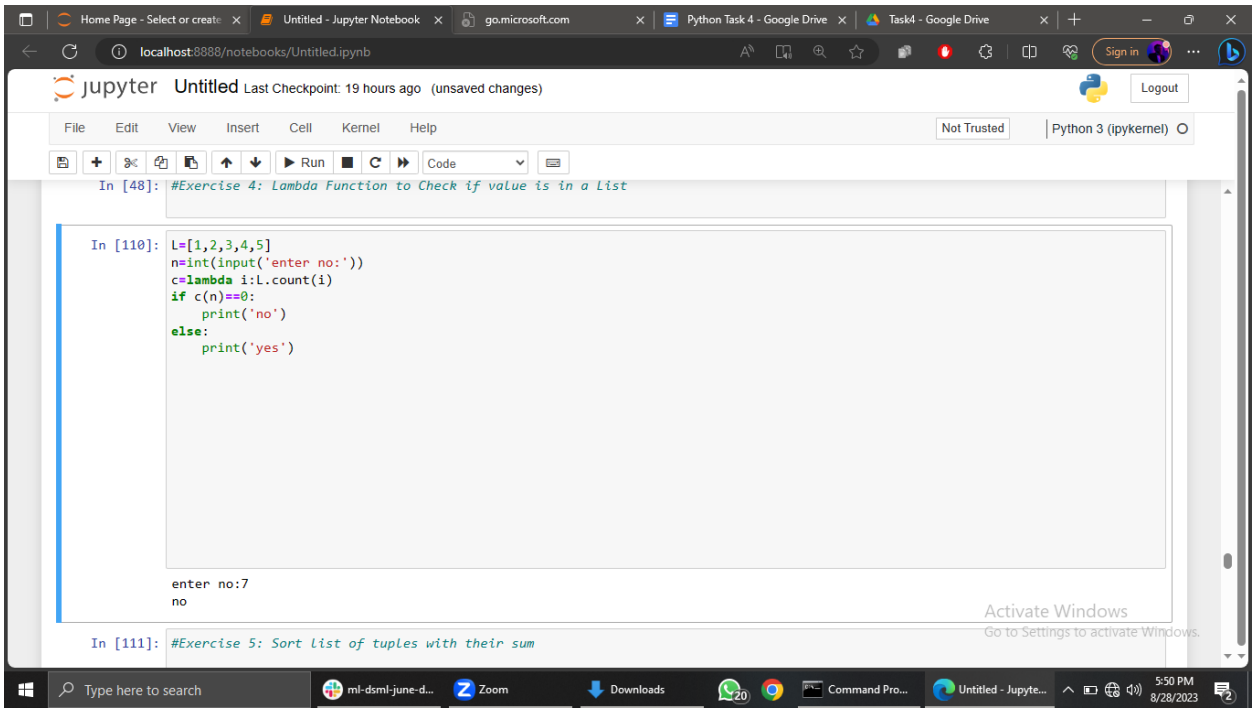
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Code
In [48]: #Exercise 4: Lambda Function to Check if value is in a List
In [110]: L=[1,2,3,4,5]
n=int(input('enter no:'))
c=lambda i:L.count(i)
if c(n)==0:
print('no')
else:
print('yes')
enter no:7
no
In [111]: #Exercise 5: Sort list of tuples with their sum
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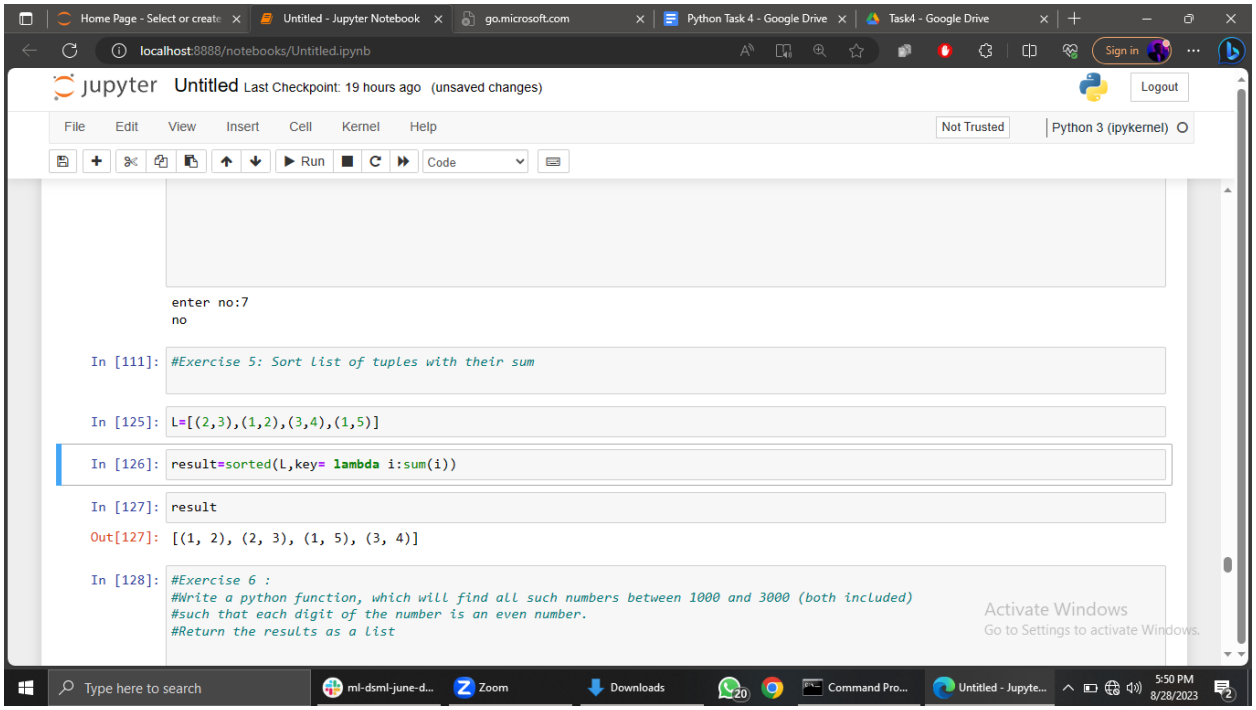
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Python 3 (ipykernel)
Run
Code
enter no:7
no
In [111]: #Exercise 5: Sort list of tuples with their sum
In [125]: L=[(2,3),(1,2),(3,4),(1,5)]
In [126]: result=sorted(L,key= lambda i:sum(i))
In [127]: result
Out[127]: [(1, 2), (2, 3), (1, 5), (3, 4)]
In [128]: #Exercise 6 :
#Write a python function, which will find all such numbers between 1000 and 3000 (both included)
#such that each digit of the number is an even number.
#Return the results as a list
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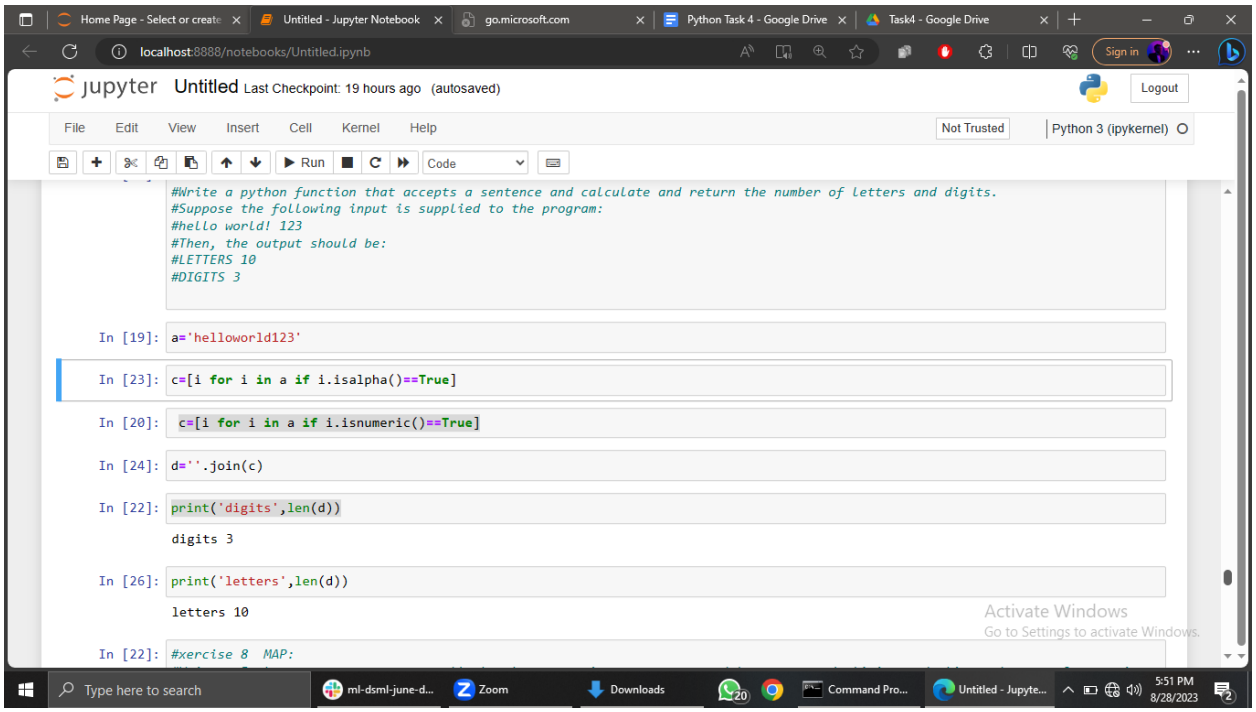
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Python 3 (ipykernel)
Run
Code
#Write a python function that accepts a sentence and calculate and return the number of letters and digits.
#Suppose the following input is supplied to the program:
#hello world! 123
#Then, the output should be:
#LETTERS 10
#DIGITS 3
In [19]: a='helloworld123'
In [23]: c=[i for i in a if i.isalpha()==True]
In [20]: c=[i for i in a if i.isnumeric()==True]
In [24]: d=''.join(c)
In [22]: print('digits',len(d))
digits 3
In [26]: print('letters',len(d))
letters 10
In [22]: #xercise 8 MAP:
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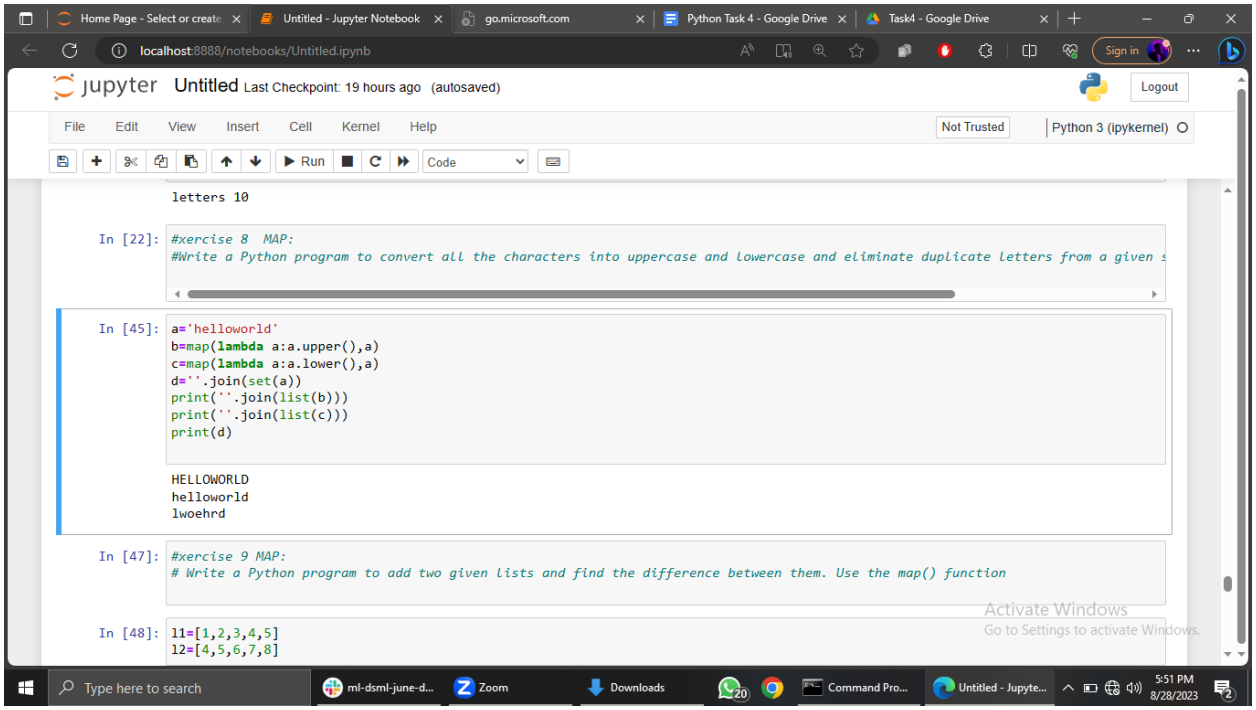
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Run
Code
letters 10
In [22]:
#xercise 8 MAP:
#Write a Python program to convert all the characters into uppercase and lowercase and eliminate duplicate letters from a given
In [45]:
a='helloworld'
b=map(lambda a:a.upper(),a)
c=map(lambda a:a.lower(),a)
d=''.join(set(a))
print(''.join(list(b)))
print(''.join(list(c)))
print(d)
HELLOWORLD
helloworld
lwoehrd
In [47]:
#xercise 9 MAP:
Write a Python program to add two given lists and find the difference between them. Use the map() function
In [48]:
l1=[1,2,3,4,5]
l2=[4,5,6,7,8]
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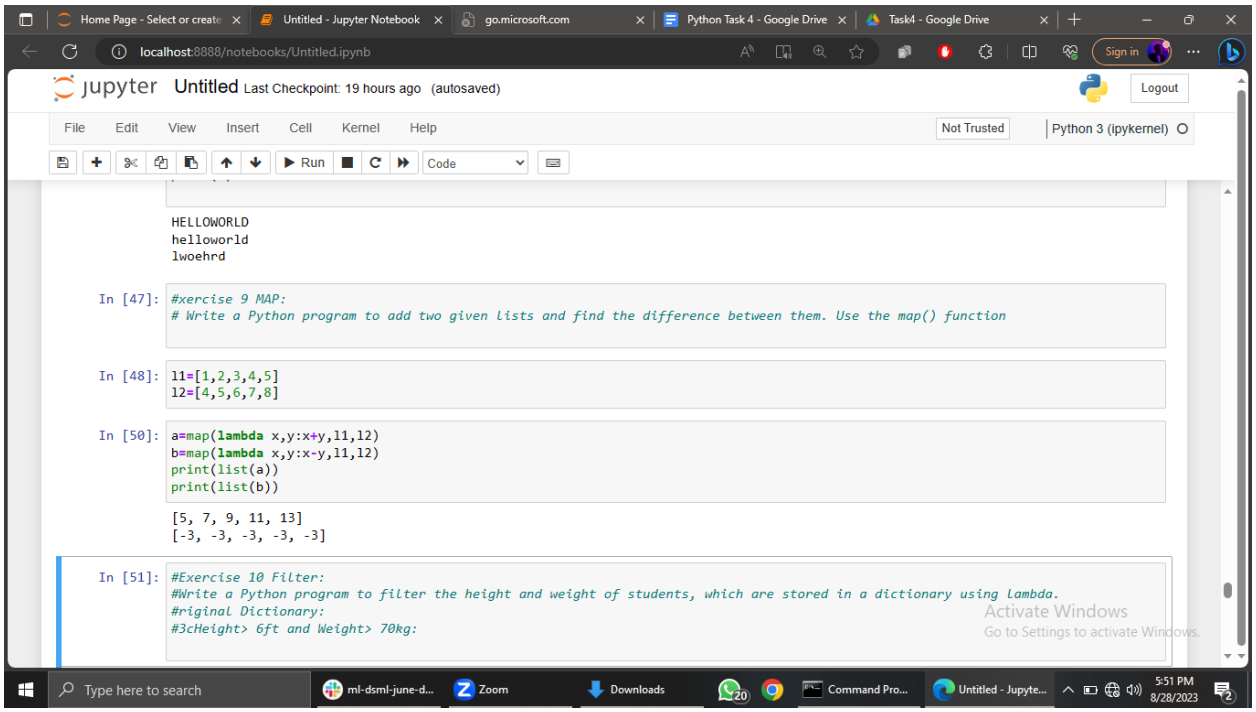
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Run
Code
HELLOWORLD
helloworld
lwoehrd
In [47]:
#xercise 9 MAP:
Write a Python program to add two given lists and find the difference between them. Use the map() function
In [48]:
l1=[1,2,3,4,5]
l2=[4,5,6,7,8]
In [50]:
a=map(lambda x,y:x+y,l1,l2)
b=map(lambda x,y:x-y,l1,l2)
print(list(a))
print(list(b))
[5, 7, 9, 11, 13]
[-3, -3, -3, -3, -3]
In [51]:
#Exercise 10 Filter:
#Write a Python program to filter the height and weight of students, which are stored in a dictionary using lambda.
#riginal Dictionary:
#3cHeight> 6ft and Weight> 70kg:
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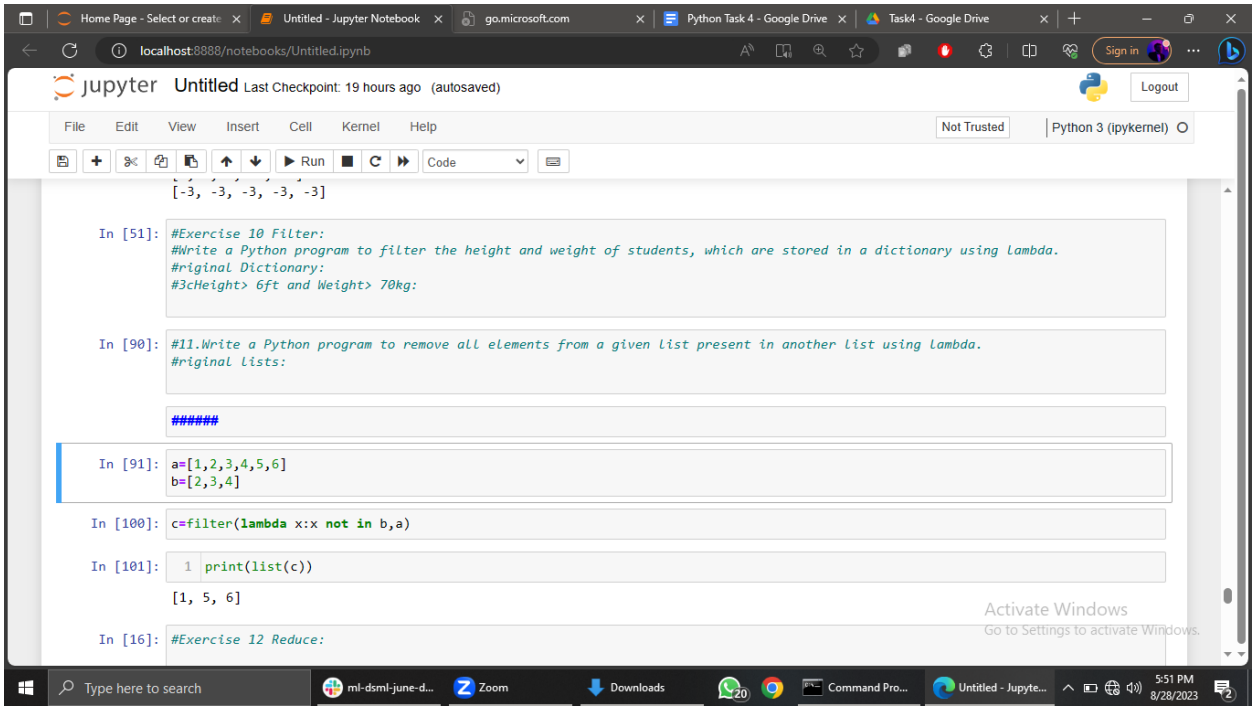
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Run
Code
[-3, -3, -3, -3, -3]
In [51]:
#Exercise 10 Filter:
#Write a Python program to filter the height and weight of students, which are stored in a dictionary using lambda.
#riginal Dictionary:
#3cHeight> 6ft and Weight> 70kg:
In [90]:
#11.Write a Python program to remove all elements from a given list present in another list using lambda.
#riginal lists:
######
In [91]:
a=[1,2,3,4,5,6]
b=[2,3,4]
In [100]:
c=filter(lambda x:x not in b,a)
In [101]:
print(list(c))
[1, 5, 6]
In [16]:
#Exercise 12 Reduce:
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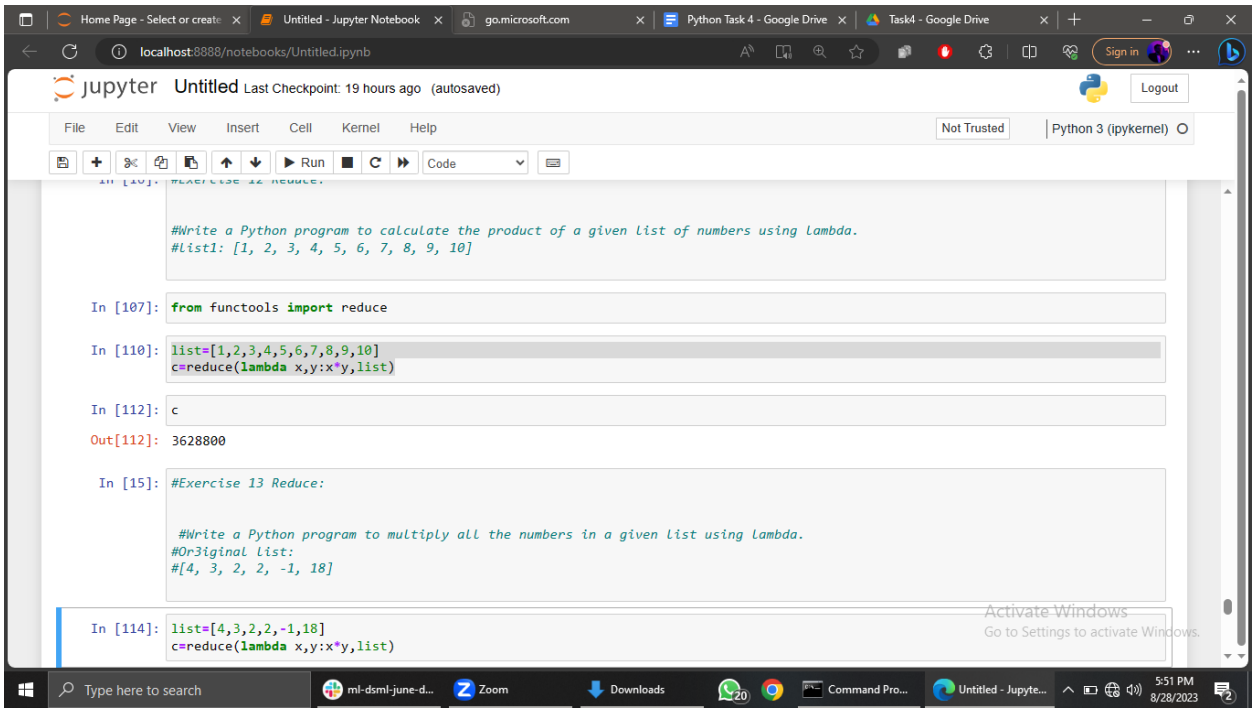
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Run
Code
#Write a Python program to calculate the product of a given list of numbers using lambda.
#list1: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
In [107]:
from functools import reduce
In [110]:
list=[1,2,3,4,5,6,7,8,9,10]
c=reduce(lambda x,y:x*y,list)
In [112]:
c
Out[112]:
3628800
In [15]:
#Exercise 13 Reduce:
#Write a Python program to multiply all the numbers in a given list using lambda.
#Or3iginal list:
#[4, 3, 2, 2, -1, 18]
In [114]:
list=[4,3,2,2,-1,18]
c=reduce(lambda x,y:x*y,list)
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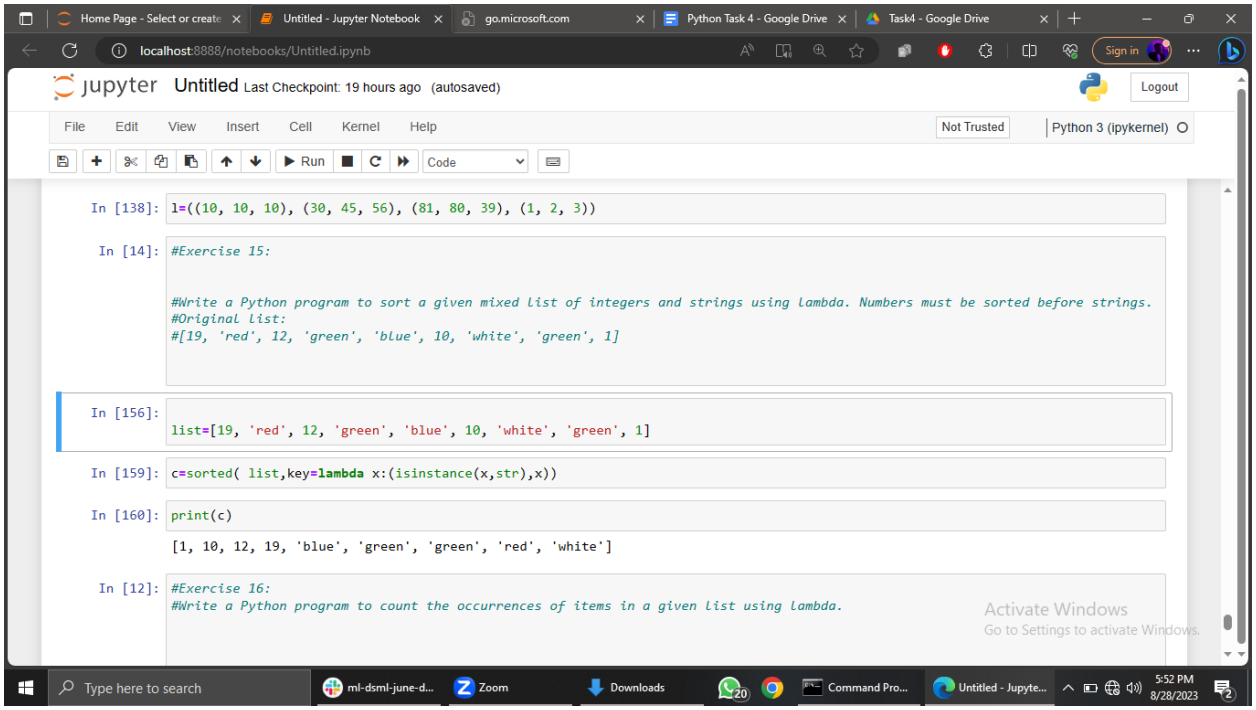
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Run
Code
In [138]: l=((10, 10, 10), (30, 45, 56), (81, 80, 39), (1, 2, 3))
In [14]: #Exercise 15:
#Write a Python program to sort a given mixed list of integers and strings using lambda. Numbers must be sorted before strings.
#Original list:
#[19, 'red', 12, 'green', 'blue', 10, 'white', 'green', 1]
In [156]: list=[19, 'red', 12, 'green', 'blue', 10, 'white', 'green', 1]
In [159]: c=sorted(list,key=lambda x:(isinstance(x,str),x))
In [160]: print(c)
[1, 10, 12, 19, 'blue', 'green', 'green', 'red', 'white']
In [12]: #Exercise 16:
#Write a Python program to count the occurrences of items in a given list using lambda.
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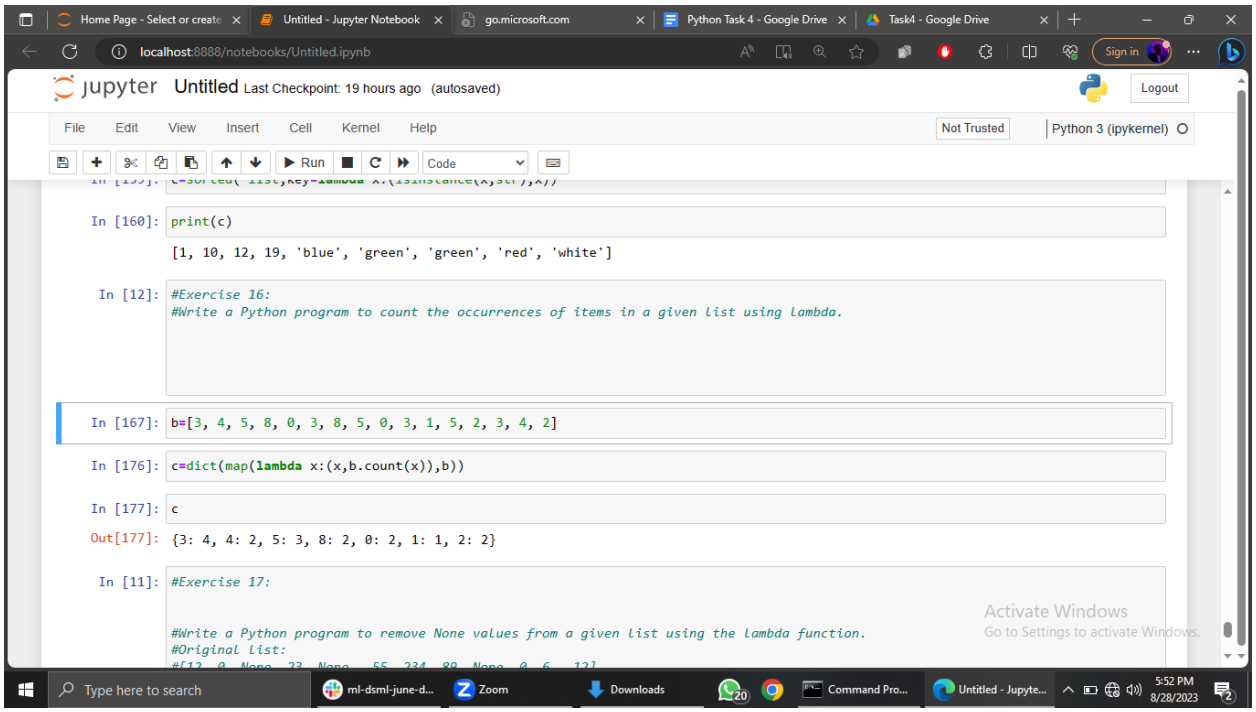
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Python 3 (ipykernel)
Run
Code
In [160]: print(c)
[1, 10, 12, 19, 'blue', 'green', 'green', 'red', 'white']
In [12]: #Exercise 16:
#Write a Python program to count the occurrences of items in a given list using lambda.
In [167]: b=[3, 4, 5, 8, 0, 3, 8, 5, 0, 3, 1, 5, 2, 3, 4, 2]
In [176]: c=dict(map(lambda x:(x,b.count(x)),b))
In [177]: c
Out[177]: {3: 4, 4: 2, 5: 3, 8: 2, 0: 2, 1: 1, 2: 2}
In [11]: #Exercise 17:
#Write a Python program to remove None values from a given list using the lambda function.
#Original list:
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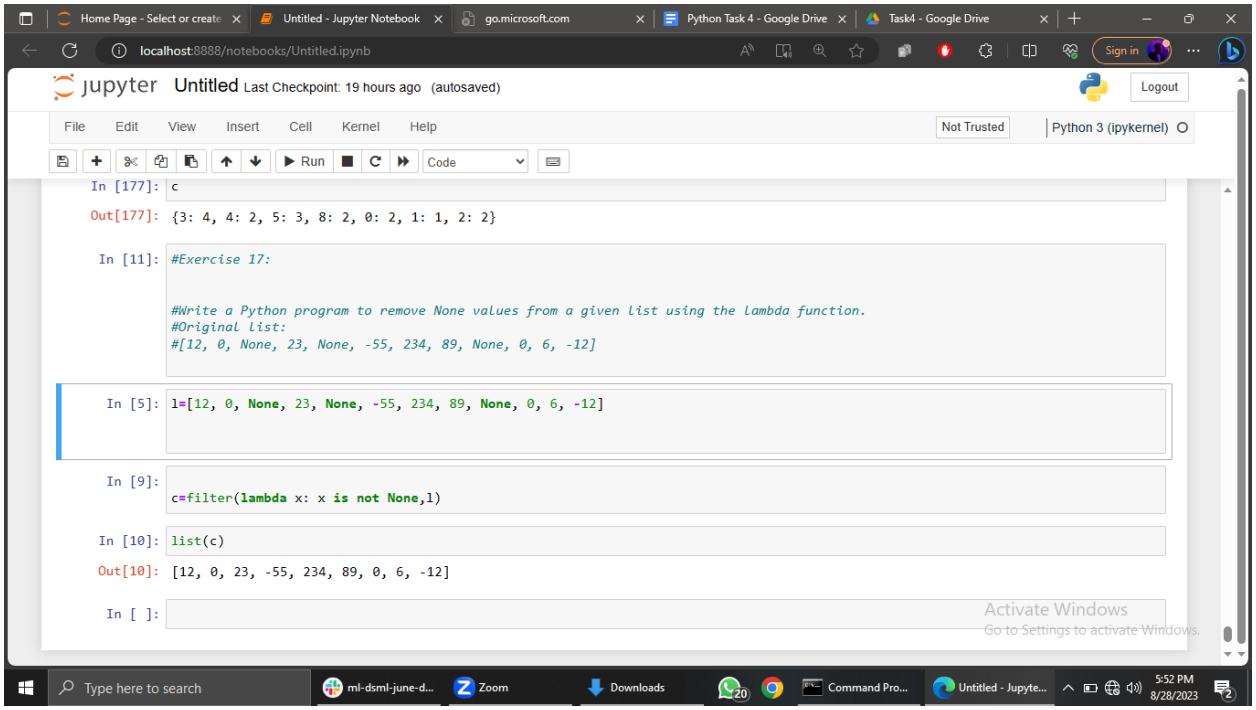
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Python 3 (ipykernel)
Run
Code
In [177]: c
Out[177]: {3: 4, 4: 2, 5: 3, 8: 2, 0: 2, 1: 1, 2: 2}
In [11]: #Exercise 17:
#Write a Python program to remove None values from a given list using the lambda function.
#Original list:
#[12, 0, None, 23, None, -55, 234, 89, None, 0, 6, -12]
In [5]: l=[12, 0, None, 23, None, -55, 234, 89, None, 0, 6, -12]
In [9]: c=filter(lambda x: x is not None,l)
In [10]: list(c)
Out[10]: [12, 0, 23, -55, 234, 89, 0, 6, -12]
In [ ]:
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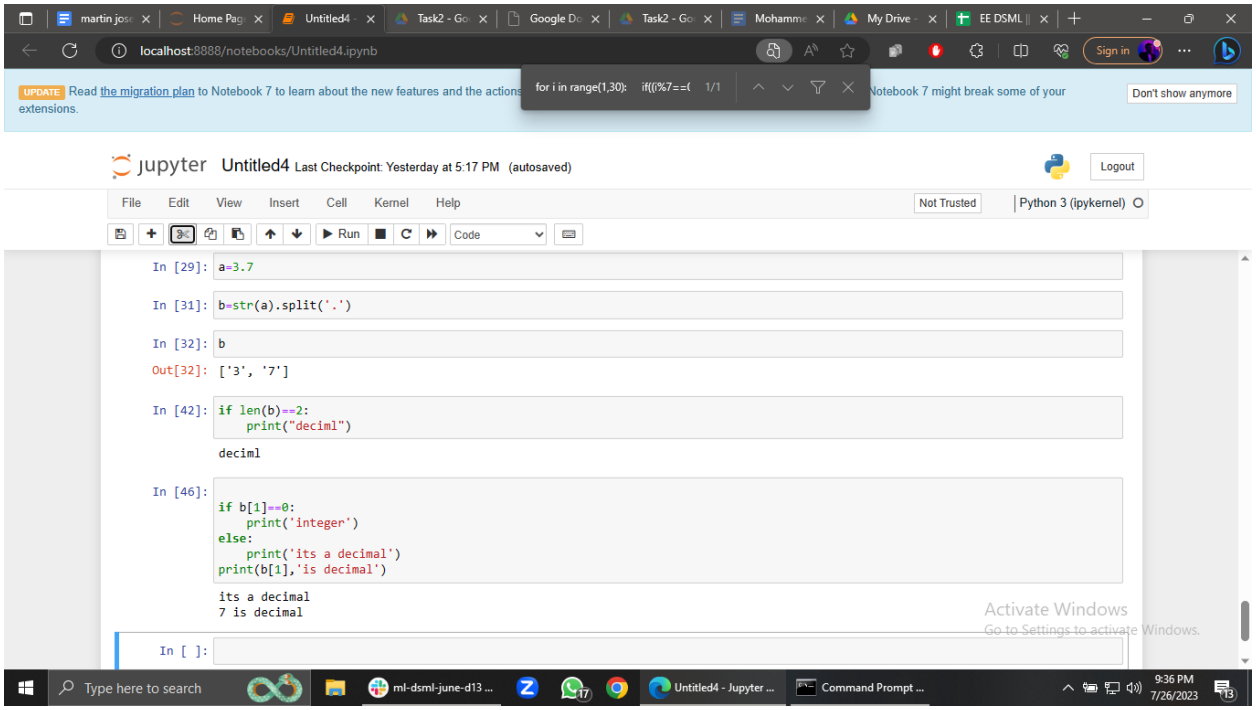
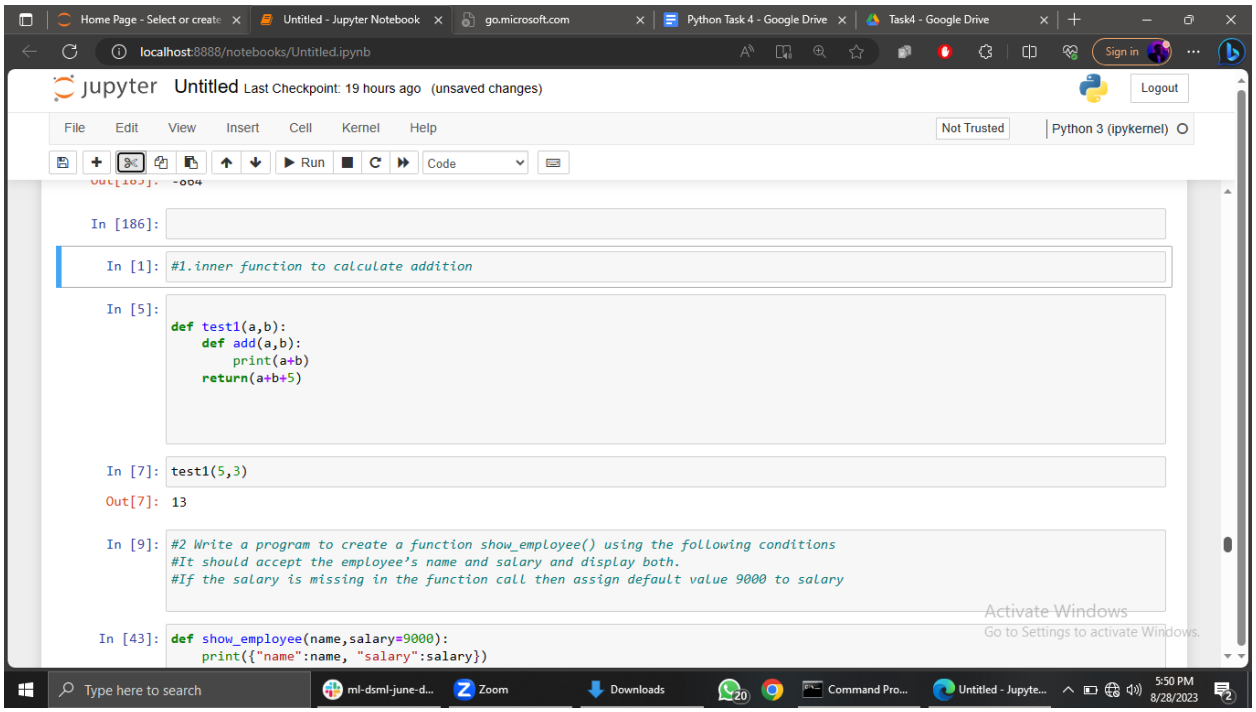


```
In [29]: a=3.7

In [31]: b=str(a).split('.')

In [32]: b
Out[32]: ['3', '7']

In [42]: if len(b)==2:
             print("deciml")
         deciml

In [46]:
         if b[1]==0:
             print('integer')
         else:
             print('its a decimal')
         print(b[1],'is decimal')
         its a decimal
         7 is decimal

In [ ]:
```



```
In [186]:

In [1]: #1.inner function to calculate addition

In [5]:
def test1(a,b):
    def add(a,b):
        print(a+b)
    return(a+b+5)

In [7]: test1(5,3)
Out[7]: 13

In [9]: #2 Write a program to create a function show_employee() using the following conditions
        #It should accept the employee's name and salary and display both.
        #If the salary is missing in the function call then assign default value 9000 to salary

In [43]: def show_employee(name,salary=9000):
             print({"name":name, "salary":salary})
```